

UNCLASSIFIED

PE NUMBER: 0207161F
PE TITLE: Tactical AIM Missiles

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2004	
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207161F Tactical AIM Missiles					
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	2.785	0.372	5.558	15.004	5.543	5.631	5.719	Continuing	TBD
4132 AIM-9 Product Improvement	2.785	0.372	5.558	15.004	5.543	5.631	5.719	Continuing	TBD

(U) **A. Mission Description and Budget Item Justification**

The AIM-9X is a long-term evolution of the AIM-9 series of fielded air-to-air missiles. The AIM-9X (Sidewinder) short range air-to-air missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority in the short range air-to-air missile arena is essential and includes first-shot, first-kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common to the AIM-9M. Anti-Tamper features are being incorporated to protect improvements inherent in AIM-9X design. AIM-9X is an Acquisition Category IC (ACAT IC) joint-service program with Navy lead. As a natural course of program evolution, pre-planned product improvements (P3I) and software updates are being done to meet evolving threats and warfighter requirements.

Acquisition Decision Memorandum (ADM) for LRIP II & III was signed in November 2001. Due to delays in IOT&E completion, the program requested and was granted authorization to change the first production lot (Lot 4) to the fourth LRIP lot. ADM for LRIP IV was signed in August 2003. The joint flight test program completed 18 unguided and 22 guided launches proving revolutionary capabilities well beyond the fielded AIM-9M. Operational Test (OT) completed November 2003. Milestone C (FRP) decision is scheduled for 2ndQtrFY04.

The program is currently in budget activity 7 - Operational System Development because it modifies an existing weapon system.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	2.912	0.375	5.573
(U) Current PBR/President's Budget	2.785	0.372	5.558
(U) Total Adjustments	-0.127	-0.003	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.003	
Congressional Increases			
Reprogrammings	-0.047		
SBIR/STTR Transfer	-0.080		
(U) <u>Significant Program Changes:</u>			
None.			

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification

DATE

February 2004

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207161F Tactical AIM Missiles

PROJECT NUMBER AND TITLE

4132 AIM-9 Product Improvement

Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4132 AIM-9 Product Improvement	2.785	0.372	5.558	15.004	5.543	5.631	5.719	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

The AIM-9X is a long-term evolution of the AIM-9 series of fielded air-to-air missiles. The AIM-9X (Sidewinder) short range air-to-air missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority in the short range air-to-air missile arena is essential and includes first-shot, first-kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common to the AIM-9M. Anti-Tamper features are being incorporated to protect improvements inherent in AIM-9X design. AIM-9X is an Acquisition Category IC (ACAT IC) joint-service program with Navy lead. As a natural course of program evolution, pre-planned product improvements (P3I) and software updates are being done to meet evolving threats and warfighter requirements.

Acquisition Decision Memorandum (ADM) for LRIP II & III was signed in November 2001. Due to delays in IOT&E completion, the program requested and was granted authorization to change the first production lot (Lot 4) to the fourth LRIP lot. ADM for LRIP IV was signed in August 2003. The joint flight test program completed 18 unguided and 22 guided launches proving revolutionary capabilities well beyond the fielded AIM-9M. Operational Test (OT) completed November 2003. Milestone C (FRP) decision is scheduled for 2ndQtrFY04.

The program is currently in budget activity 7 - Operational System Development because it modifies an existing weapon system.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Accomplishments/Planned Program	0.000	0.000	0.000
(U) Continue the EMD contract to include correction of deficiencies found in OT, and EMD contract completion activities	1.680	0.000	0.000
(U) Continue providing government flight test support of activities defined as DT Assist (with operational testers) at multiple test sites	0.537	0.000	0.000
(U) Field engineering support for government flight test activities	0.368	0.000	2.100
(U) Provide program office management support to include supplies and travel	0.118	0.077	0.148
(U) Provide for consulting services, technical engineering, and management support	0.082	0.000	0.100
(U) Continue correcting deficiencies found in OT	0.000	0.211	0.000
(U) Field engineering support for correction of deficiencies found in OT	0.000	0.084	0.800
(U) Start P3I activities and software updates	0.000	0.000	2.410
(U) Total Cost	2.785	0.372	5.558

Exhibit R-2a, RDT&E Project Justification

DATE

February 2004

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207161F Tactical AIM Missiles

PROJECT NUMBER AND TITLE

4132 AIM-9 Product Improvement

(U) C. Other Program Funding Summary (\$ in Millions)(U) D. Acquisition Strategy

After a full and open competition, a Cost Plus Incentive Fee/Award Fee contract was awarded to Hughes Missile Systems Company (now Raytheon Systems Corp (RSC)) to complete missile system development and prepare for production. This EMD contract included three Fixed Price options for Low Rate Initial Production (LRIP) Lots 1, 2, and 3. Per an ADM signed in May 2003, FRP Lot 4 was changed to LRIP 4 which was exercised in Nov 2003. FRP decision, with advice from the Air Force Acquisition Executive, is scheduled for 2ndQFY04. FRP Lots 5 through 7 contracts will be Firm Fixed-Price (FFP) with incentives provided if the contractor meets or beats his Procurement Price Commitment Curve (PPCC), a quantity price curve provided by RSC with the EMD proposal.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2004

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0207161F Tactical AIM Missiles				4132 AIM-9 Product Improvement				
(U) <u>Cost Categories</u>	<u>Contract Method</u>	<u>Performing Activity &</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements)	<u>& Type</u>	<u>Location</u>	<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
(\$ in Millions)			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>			
(U) <u>Product Development</u>												
Hughes	C/CPIF		5.694							0.000	5.694	
Raytheon	C/CPIF		5.695							0.000	5.695	
Raytheon	C/CPIF		83.855	1.680	Nov-02					Continuing	TBD	
Boeing	C/CPIF		16.107								16.107	
Engineering Services	Various		14.162					2.410		Continuing	TBD	
Program Management*	PO		8.300							Continuing	TBD	
N/A	N/A		0.000							0.000	0.000	
Subtotal Product Development			133.813	1.680		0.000		2.410		Continuing	TBD	0.000
Remarks:	Note*: Based on a Memorandum of Agreement, RDT&E program costs includes Navy PMA working capital funded personnel funded at 50%/50% ratio per Service.											
(U) <u>Support</u>												
Various Contracts	FFP		1.811	0.118	Nov-02	0.077	Nov-03	0.148		Continuing	TBD	
N/A	N/A		0.000							0.000	0.000	
Subtotal Support			1.811	0.118		0.077		0.148		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Field Activities	PO		12.235	0.905	Nov-02	0.084	Nov-03	2.900		Continuing	TBD	
N/A	N/A		0.000							0.000	0.000	
Subtotal Test & Evaluation			12.235	0.905		0.084		2.900		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
				0.082	Nov-02	0.211	Nov-03	0.100			0.393	
Subtotal Management			0.000	0.082		0.211		0.100		0.000	0.393	0.000
Remarks:												
(U) Total Cost			147.859	2.785		0.372		5.558		Continuing	TBD	0.000

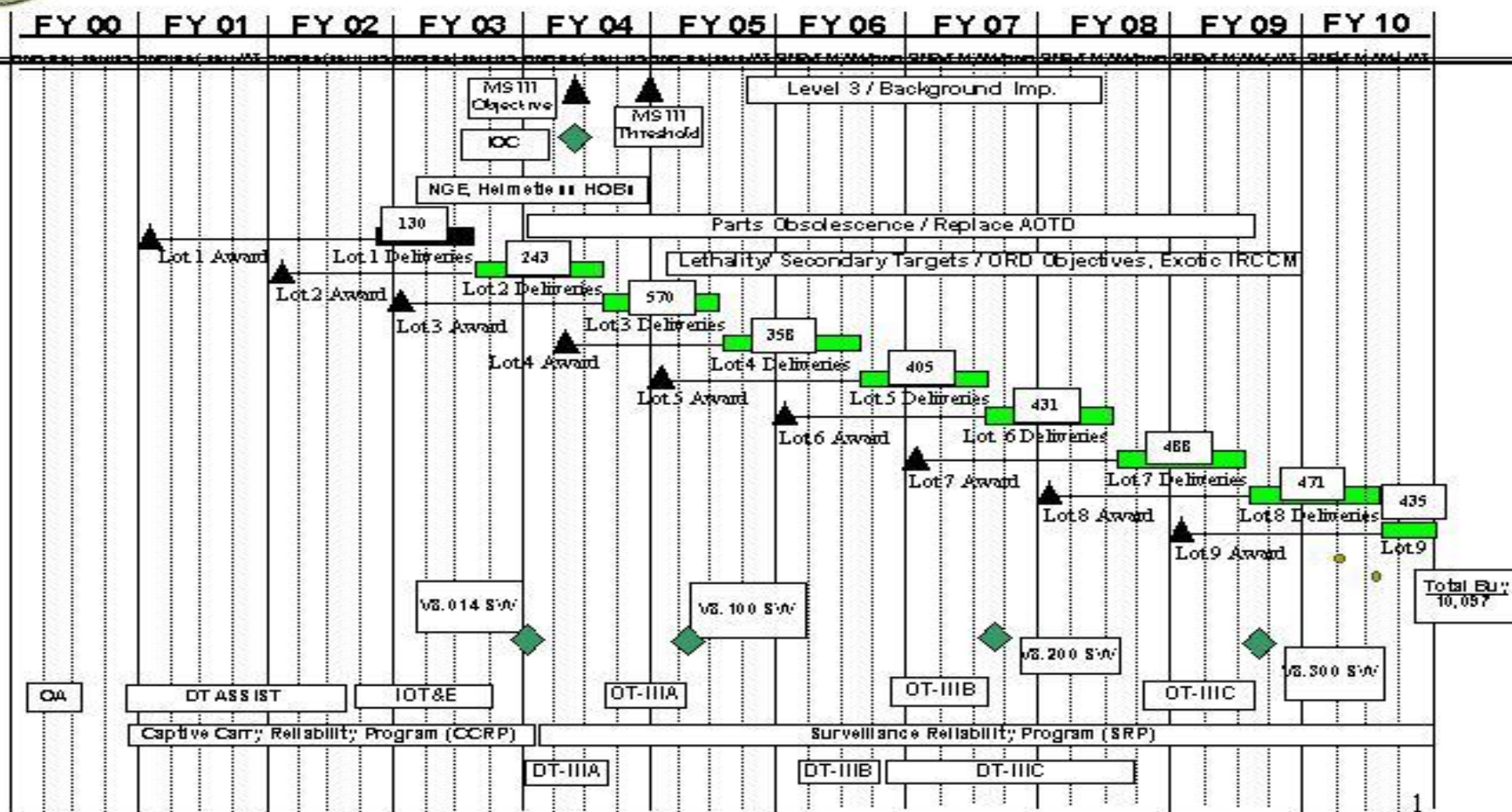
Exhibit R-4, RDT&E Schedule Profile

February 2004

PROJECT NUMBER AND TITLE	4132 AIM-9 Product Improvement
--------------------------	--------------------------------



AIM-9X Program and Delivery Schedule



Project 4132

R-1 Shopping List - Item No. 132-6 of 132-7

Exhibit R-4 (PE 0207161F)

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2004

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207161F Tactical AIM Missiles

PROJECT NUMBER AND TITLE

4132 AIM-9 Product Improvement

(U) Schedule ProfileFY 2003FY 2004FY 2005

(U) LRIP 3 Award

1Q

(U) LRIP 4 Decision

4Q

(U) LRIP 4 Award

1Q

(U) RAA/IOC

2Q

(U) Milestone 3

2Q

(U) FRP Award (Lots 5-7)

1Q